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	COUNTRY	Germany (Russian Zone)	DATE DISTR 2 November 1951
	SUBJECT	Machine Construction Research Activities in 1950	NO. OF PAGES 2
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	1.		
		Of the marks are in the 2000	
	2. Of the problems in the 1950 research and development plan proposed by the Central Technical Designing Office of the Einistry of Eachine Construction, 2h2 were conclusively dealt with during 1950. Two hundred and thirty developments from these research activities were released to be put into production. The remaining 12 developments were held up because the test models have not yet been built or because the results proved unsatisfactory. The 230 research results released to the industry included 19 developments for heavy mechine construction, 55 for general machine construction, 5 for vehicle construction, 3 for shipbuilding, 10h for the electrical engineering industry and h1 for the precision mechanical and optical industries. Of these 230 developments, 157 had actually been put into production as of April 1951; i.e., ten in the heavy machine construction industry, 3 in the vehicle construction industry 3 in the shipbuilding industry, 73 in the vehicle construction industry, and 25 in the precision mechanical and optical industry, and 25 in the precision mechanical and optical industry.  3. The new machines and production methods developed by these research activities included the following: improvement of heat utilization of the cupola furnace; production of special machinery for economical production of acceptable bearings; improvement of orill bit grinding machines, multiple tool lathes, centering machines and cont ring grinding machines; development of a surface lathe with a center height of 3,000 mm; development of chiscle (Backonneissel) with hard nettal tips which will increase mining production; development of an etomizing drying installation (Lerstacebungstrockung) for the chammical, pinarnaceutior! and food industries; improvement of a poppot valve for compressors, thus eliminating the necessity for importance and entring machines and cutting machine and a drying apparatus for dough products; and the development of various butchering machines, a new cigarette machine and cutting machine and a dryin		
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frame machine, a light sewing machine for leather and an top leather processing machine (Oberlederschaeftmaschine). Developments in the construction of woodworking machinery include some frames (Gatter), a cleaning and planing machine and a three-sided planing machine. Developments in the construction of agricultural machinery included a double furrow paring plough (Sweischichten-Schaelpflug) and a sugar beet hoisting machine. A small offset printing machine and a high-capacity offset printing machine were also developed. Improvements were made in the production of a bottle-labeling machine, in the method of producing screws and small hardware, and in the construction of machines for the production of metal tubes and pneumatic tools. These improvements would allegedly enable the Soviet Zone to meet its domestic requirements for these items. Levelopments in the construction of vehicles include new refrigerators, streetcars, a selfsupporting chassis (selbsttragende Karosserie) for the 70 passenger car and the UBA truck equipped with a Diesel engine, as well as a journal shaft (Lepfwelle) working independently from the engine clutch designed for the 30 NF agricultural tractor. The projects planned for various types of ships and for a floating crane (Schwimmkran) cannot be completed until a later date. Laterial will be saved and costs will be lowered by the development of assembly line production of engines and by reducing the number of engine types produced. A new and improved welding technique will allegedly be possible with a new multiple welding transformer which has been developed. New developments in installation material (sic) and electrical equipment for automobiles are planned which will make it unnecessary for the Sovi t Zone to import these products. Through the development of new redio sets it is hoped to create export possibilities. New wethods were developed for the production of telecommunication equipment, fire alarm witchbeards (Feuermeldezentralen), condensers, radio installations for fisheries, infrared radiation devices, a high frequency generator, various measuring instruments, a machine telegraph for ship-building (sic), and a ship clock. It has also been made possible to produce watch jewels from raw materials available in the Soviet Zone.

- h. The research work has been hampered because the plan did not provide investment funds for the creation of facilities for the mass production in 1951 of some of the completed developments.
- 5. By order of the Central Office of Research and Technology of the State Planning Commission in the Soviet Zone of Germany, a detailed final report must be submitted six weeks, at the latest, after the completion of each development. In most instances the production records, a model and a test machine must be made, although in rare cases, only the production records are required. On items to be put into mass production, a test production must first be rade to ascertain the production costs and to work out the technical problems of production.

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